

# Amiga for Education

Leverage the Amiga as an educational tool, providing students with hands-on experience in robotics, autonomy, and precision agriculture, fostering innovation and skill development.



**The Farm Robotics Challenge** is an annual competition that empowers student teams—from secondary school through university to design and prototype cutting-edge robotics solutions for real-world agricultural challenges. Using Bonsai technology, students gain hands-on experience with robotics and AI, expand their networks, and showcase their talent to industry while competing for major prizes.



[farmroboticschallenge.ai](https://farmroboticschallenge.ai)

## Top benefits

**Hands-on experience:** Provides a tangible, real-world robotics platform for practical learning and skill development.

**Empowerment through open source:** Access to an open-source platform fosters innovation and allows for experimentation and modification.

**Entrepreneurial launchpad:** Facilitates the transition from research project to startup, aligning with institution's innovation initiatives.

**Career advancement:** Equips students with in-demand skills in robotics, AI, and AgTech, enhancing their career prospects.

## Amiga for Education

Amiga for Education is modular and open by design so students can build like they would with Lego blocks. Add, remove, or replace blocks without worrying about overall stability or functionality.



### Modular Architecture

Customize Amiga with interchangeable implements for tasks like seeding, weeding, and harvesting.

### AI-Powered Automation

With field navigation and teachable routes, students can automate repeatable tasks and streamline workflows.

### All-Electric Power

Featuring zero emissions, the Amiga runs for up to 8 hours on a single charge, supporting sustainable farming practices while reducing operational costs for growers.

### Open Developer Kit

Bonsai's open APIs enable seamless integration and automation, allowing students to create tailored solutions.

### Heavy-Duty Performance

With a payload capacity of up to 1000 lbs, the Amiga can handle tough farm jobs like hauling harvest bins and spreading compost.

### Remote Control

Remote operation and cloud integration enable precise control and real-time monitoring from any location.

### Mobile Base Specs\*

**Ground Clearance:**

24.1 in / 61.2 cm

**Base Weight:**

350 lbs / 160 kgs

**Drivetrain:**

4x 250 Watts Hub Motors

**Energy Capacity:**

1.32 kWh [Dual Pack]

2.64 kWh [Quad Pack]

**Speed:**

5 mph / 8 kmph

**Haul:**

950 lbs / 430 kgs

**Tow:**

2000 lbs / kgs

**3 Point Lift:**

800 lbs / 360 kgs



\*Contact us for specs on I/Os, compute, sensors, and more.

**Contact Us**

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